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宮前区土橋 1-7-1-502 Kanagawa (JP). 岸本 健史 (KISHIMOTO,Kenji) [JP/JP]; 〒179-0081 東京都練馬区北町 1-4-4-3-601 Tokyo (JP). 大野 弘幸 (OHNO,Hiroyuki) [JP/JP]; 〒134-0092 東京都江戸川区一之江町 3002-314 Tokyo (JP).

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(74)代理人: 西澤 利夫 (NISHIZAWA,Toshio); 〒150-0042 東京都渋谷区宇田川町 37-10 麻仁ビル 6階 Tokyo (JP).

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(71)出願人(米国を除く全ての指定国について): 科学技術振興事業団 (JAPAN SCIENCE AND TECHNOLOGY CORPORATION) [JP/JP]; 〒332-0012 埼玉県川口市本町4丁目1番8号 Saitama (JP).

添付公開書類:
— 国際調査報告書(72)発明者; および
(75)発明者/出願人(米国についてのみ): 加藤 隆史 (KATO,Takashi) [JP/JP]; 〒216-0005 神奈川県川崎市

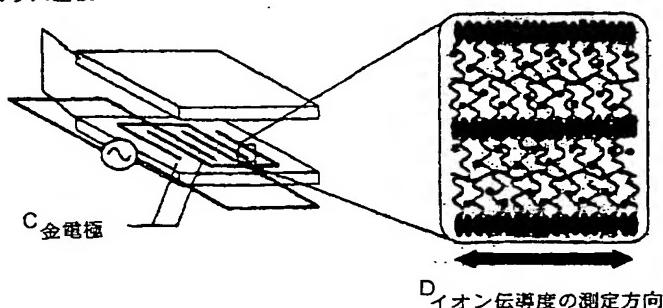
2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイドスノート」を参照。

(54)Title: POLYMERIZABLE ION-CONDUCTIVE LIQUID-CRYSTALLINE COMPOSITE, ANISOTROPICALLY ION-CONDUCTIVE POLYMERIC LIQUID-CRYSTAL COMPOSITE, AND PROCESS FOR PRODUCING THE SAME

(54)発明の名称: 重合可能なイオン伝導性液晶性複合体と異方的イオン伝導性高分子液晶複合体並びにその製造方法

A セルA (σ_{ijl})

B ガラス基板



A...CELL A
B...GLASS SUBSTRATE
C...GOLD ELECTRODE
D...DIRECTION OF IONIC-CONDUCTIVITY MEASUREMENT

(57)Abstract: A composite of an organic monomer compound having a molecular structure containing a polymerizable part, a part for forming an ion composite, and a mesogenic part imparting liquid crystallinity with an (in)organic salt is polymerized at the polymerizable part of the organic monomer compound. Thus, an anisotropically ion-conductive polymeric liquid-crystal composite is obtained. A new material is thus provided which combines the high ionic conductivity inherent in polyelectrolytes, the anisotropy due to liquid-crystal orientation, and the self-supporting properties possessed by polymeric compounds.

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ATTACHMENT E

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00555

A. CLASSIFICATION OF SUBJECT MATTER
 Int.Cl⁷ C08F20/30, C08F2/44, C08F2/46//C09K19/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C08F12/00-12/36, 16/00-38/04, 112/00-112/36, 116/00-138/04, 212/00-212/36, 216/00-238/04, C08F2/44-2/50, C09K19/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 WPI/L, CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E, X	JP 2003-64259 A (Fuji Photo Film Co., Ltd.), 05 March, 2003 (05.03.03), Claims; Par. Nos. [0042] to [0083] (Family: none)	1-5
E, X	JP 2003-20479 A (Canon Inc.), 24 January, 2003 (24.01.03), Full text (Family: none)	1-5
P, X	JP 2002-170426 A (Fuji Photo Film Co., Ltd.), 14 June, 2002 (14.06.02), Full text & US 2002/55046 A1	1-5

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search 14 April, 2003 (14.04.03)	Date of mailing of the international search report 30 April, 2003 (30.04.03)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/00555

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	JP 2002-105033 A (Canon Inc.), 10 April, 2002 (10.04.02), Full text & EP 1176184 A2 & US 2002/47104 A1	1-5
X	JP 2001-202995 A (Fuji Photo Film Co., Ltd.), 27 July, 2001 (27.07.01), Full text & EP 1116769 A2 & US 2002/34690 A1	1-5
X	JP 11-86629 A (Mitsubishi Electric Corp.), 30 March, 1999 (30.03.99), Claims; examples (Family: none)	3

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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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30 April, 2003 (30.04.03)Name and mailing address of the ISA/
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